

Amendments to the Claims

1 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord comprising:

a pair of cylindrical rotating bodies rotating in the same direction, wherein the axes of rotation of the cylindrical rotating bodies are is disposed an axial direction of a cylinder obliquely from parallel only at an oblique, predefined angle to each other,

a supply guide supplying a rubber coated cord group to the cylindrical rotating ~~body~~ bodies,
the apparatus configured (1) to form a cylindrical rubber sheet formed by spirally wrapping continuously contacting with each other the rubber coated cord on a surface of the pair of cylindrical rotating bodies so that the rubber coated cord is continuously brought into contact with the rubber coated cord already spirally wrapped on by a rotation of the pair of cylindrical rotating bodies and (2) to move the cylindrical rubber sheet is formed to send on the pair of cylindrical rotating bodies to an along the axial direction of a the cylinder-, characterized in that;

at least one of the pair of cylindrical rotating bodies includes a plurality of small rollers forming a roller group on a peripheral surface of that cylindrical rotating body; and

the axis direction of each of the small rollers of the cylindrical rotating body is disposed obliquely at a predefined angle from parallel with the axis direction of the adjacent small rollers.

2 (canceled).

3 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein ~~it is formed to vary a~~ the diameter of said cylindrical rubber sheet may be varied by varying ~~according to vary~~ a center distance between said pair of cylindrical rotating bodies.

4 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein ~~it is formed to be able to fine adjust~~ a return position of a the rubber coated cord group may be finely adjusted using ~~according to provide~~ a push over roller

guide ~~in a process returning to the former cylindrical rotating body after a~~ the rubber coated cord group wrapped around ~~between~~ said pair of cylindrical ~~rotation~~ rotating bodies has made a circuit and has returned to the former cylindrical rotating body.

5 (canceled).

6 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to ~~claim 5~~ claim 1, wherein ~~in~~ said cylindrical rotating body which includes a plurality of small rollers forming a roller group on a peripheral surface of that cylindrical rotating body it is ~~formed to be able to vary a~~ of variable diameter ~~of a cylinder~~ by varying a center distance of said small roller group.

7 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein the apparatus comprises: ~~it is formed to conduct a push over to contact a cord group a and b with each other by providing~~ a pair of zipper roller guides on each ~~of a~~ cord group ~~a and b~~ A and a cord group B, wherein cord group B has already made a circuit of the cylindrical rotating bodies and is wrapped around the cylindrical rotating bodies; the zipper guides acting to push cord group A into contact with cord group B thereby ~~when~~ forming a cylindrical rubber sheet from the continuously spirally ~~wrapping a~~ wrapped rubber coated cord group ~~a~~ by supplying a rubber coated cord group to said cylindrical rotating ~~body~~ bodies through said supply guide ~~and a rubber coated cord group b which has made a circuit already wrapped around on the cylindrical rotating body.~~

8 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 2, wherein a surface length of a small roller ~~transporting each cylindrical rubber sheet of said small diameter roller~~ formed of said cylindrical rotating body is selected to be 1.5 times or more and 10 times or less of the width of ~~a~~ the rubber coated cord group to be processed.

9 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to clam 2, wherein each ~~roller of said small diameter roller~~ of said roller group

~~formed~~ of said cylindrical rotating body ~~is formed to rotate~~ rotates at constant surface velocity ~~being~~ when driven.

10 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein ~~it~~ the apparatus further has a presser tool to press said cylindrical rubber sheet.

11 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, further including a cutter wherein said cylindrical rubber sheet ~~being formed~~ made by wrapping the rubber coated cord group around on said cylindrical rotating body is cut away spirally ~~according to further having a cutter in a manufacturing apparatus and it is formed to manufacture thereby providing~~ a rubber sheet ~~arranged in which the cord in~~ arranged at a predefined angle α against to a longitudinal direction of a sheet.

12 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein a rubber extruder having a rubber coating die is provided ~~in a previous step~~ upstream of said supply guide, guiding the rubber coated cord groups being guided to said cylindrical rotating ~~body~~ bodies through the supply guide ~~while forming a rubber coated cord group after the cord has continuously passed according to be formed to pass a cord through the rubber coating die and has become coated with coating~~ rubber extruded from the rubber extruder.

13 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, ~~wherein comprising a cord supplying section have~~ having a twister or an assembly winder, ~~a cord supplying to said cylindrical rotating body wherein the cord supplying section is formed to unreel, thereby giving a twist to the cord; and by a twister or an assembly winder and the cord supplying section is formed to be guided~~ guide the twisted cord to said cylindrical rotating ~~body~~ bodies through said supply guide.

14 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord, comprising the steps of:

~~forming a cylindrical rubber sheet by spirally wrapping continuously the rubber coated cord group contacting with each other according to supply~~
supplying a rubber coated cord group through a supply guide to a pair of cylindrical rotating bodies, the cylindrical rotating bodies rotating in the same direction disposed an axial direction of a cylinder obliquely from parallel only a predefined angle, and wherein the axes of rotation of the cylindrical rotating bodies are disposed at an oblique, predefined angle to each other;
forming a cylindrical rubber sheet by continuously spirally wrapping the rubber coated cord groups around the cylindrical bodies;
contacting the rubber coated cord continuously with other rubber coated cord;
and ~~sending~~ moving the cylindrical rubber sheet on the pair of cylindrical rotating bodies ~~to an~~
along the axial direction of a the cylinder, characterized in that:
at least one of the pair of cylindrical rotating bodies includes a plurality of small rollers forming a roller group on a peripheral surface of that cylindrical rotating body; and
the axis direction of each of the small rollers of the cylindrical rotating body is disposed obliquely at a predefined angle from parallel with the axis direction of the adjacent small rollers.

15 (canceled).

16 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 14, comprising to the step ~~to vary~~ of varying a diameter of said cylindrical rubber sheet by varying a center distance of said pair of cylindrical rotating bodies.

17 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 14, comprising the step of ~~fine adjust~~ finely adjusting a returning position of ~~a the~~ rubber coated cord group by using a push over roller guide to position provided ~~in a process to return to the former cylindrical rotating body after~~ a rubber coated cord group which has made a circuit between said pair of cylindrical rotating bodies as the rubber coated cord group returns to the former cylindrical rotating body.

18 (canceled).

19 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to ~~claim 18~~ claim 12, comprising the step of varying a ~~cylinder~~ diameter of a cylindrical rotating body which includes a plurality of small rollers forming a roller group ~~said cylindrical rubber sheet~~ by varying a center distance of said ~~small diameter roller~~ roller group ~~formed~~ and thereby varying the cylinder diameter of said cylindrical rubber sheet ~~rotating body~~.

20 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 12 ~~claim 14~~, comprising the step of conducting a push over to contact cord groups ~~a and b~~ A and B with each other by providing a pair of zipper roller guides ~~guide~~ ~~provided~~ on each of cord group ~~a and b~~ A and B when forming a the cylindrical rubber sheet; continuously ~~wrapping~~ spirally wrapping the a rubber coated cord group ~~a~~ A; supplying a rubber coated cord group A to said cylindrical rotating ~~body~~ bodies through said supply guide and supplying rubber coated cord group A to rubber coated cord group b B which has already made a circuit and wrapped around on the cylindrical rotating ~~body~~ bodies.

21 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 12 ~~claim 14~~, comprising the step of ~~manufacturing a rubber sheet~~ ~~disposed a~~ disposing the cord to at a predefined angle α ~~against to~~ a longitudinal direction of a sheet according by using a cutter to cutting away spirally cut said cylindrical rubber sheet spirally once the cylindrical rubber sheet has been formed by wrapping around ~~on~~ said cylindrical rotating bodies ~~body with a cutter~~.

22 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 12 ~~claim 14~~, comprising the step of ~~being guided to~~ guiding the rubber coated cord group to said cylindrical rotating ~~body~~ bodies through said supply guide while being formed continuously by passing ~~forming continuously said rubber coated cord group according to pass~~ a cord supplied to said cylindrical rotating ~~body~~ bodies through a rubber coating die and coating the cord with rubber extruded from a rubber extruder.

23-32 (canceled)